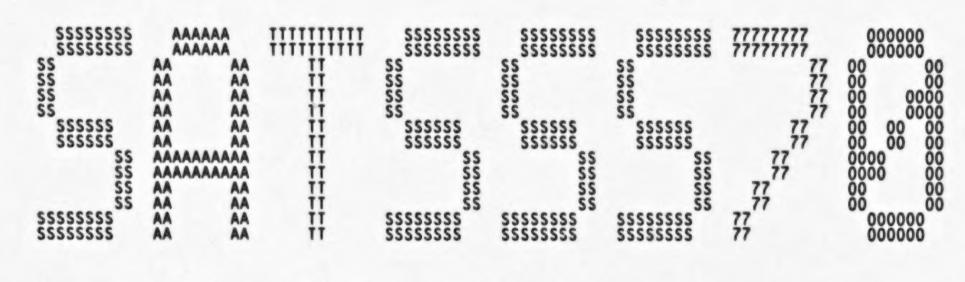
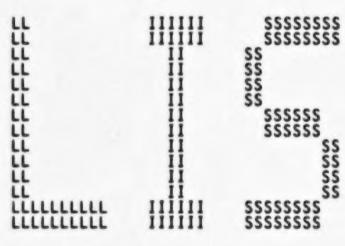
UUU	UUU	EEEEEEEEEEEEEE	!!!!!!!!!!!!!!!!	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	\$	YYY YYY
UUU	UUU	EEEEEEEEEEEE	1111111111111111	РРГРРРРРРРР	SSSSSSSSSSSS	YYY YYY
UUU	UUU	EEE	111	PPP PPP	SSS	AAA AAA
UUU	UUU	EEE	111	PPP PPP	SSS	YYY YYY
UUU	UUU	EEE	111	PPP PPP	\$\$\$	YYY YYY
UUU	UUU	ĒĒĒ	ttt	PPP PPP	SSS	YYY YYY
UUU	UUU	ĒĒĒ	ŤŤŤ	PPP PPP	SSS	777 777
ŬŬŬ	ŬŬŬ	EEEEEEEEEE	ŤŤ	РРРРРРРРРРР	SSSSSSSS	YYY
UUU	ÜÜÜ	EEEEEEEEEEE	ŤŤŤ	PPPPPPPPPPP	SSSSSSSS	ŶŶŶ
UUU	UUU	EEEEEEEEEEE	ŤŤŤ	PPPPPPPPPPP	SSSSSSSS	ŶŶŶ
UUU	UUU	EEE	TTT	PPP	SSS	YYY
UUU	UUU	EEE	TTT	PPP	SSS	YYY
UUU	UUU	EEE	TTT	PPP	SSS	YYY
UUU	UUU	EEE	TTT	PPP	SSS	YYY
UUU	UUU	EEE	III	PPP	SSS	YYY
UUU	UUU	EEE	III	PPP	SSS	YYY
	UUUUUUUU	EEEEEEEEEEEEEE	III	PPP	SSSSSSSSSSS	YYY
	UUUUUUU	EEEEEEEEEEEEE	III	PPP	22222222222	AAA
UUUUUUU	UUUUUUUU	EEEEEEEEEEEEE	111	PPP	SSSSSSSSSS	YYY





SA

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SATSSS70 Table of con	tents	SATS SYSTEM SERVICE TESTS SEXPREG (SUCC 16-SEP-1984 01:00:48 VAX/VMS Macro V04-00	Page	0
	54 98 135 207 277 370 507	DECLARATIONS CONDITION TABLES TM_SETUP, TM_CLEANUP CONDITION SUBROUTINES - SETUP AND CLEANUP FORM_CONDS VERIFY VFY_CLEANUP		

SA VO TITLE SATSSS70 SATS SYSTEM SERVICE TESTS SEXPREG (SUCC S.C.)

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FACILITY: SYSTST (SATS SYSTEM SERVICE TESTS)

ABSTRACT:

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THIS MODULE CONTAINS SUBROUTINES WHICH, WHEN LINKED WITH SUCCOMMON.OBJ, FORM TEST MODULE SATSS70 TO TEST SUCCESSFUL OPERATION OF THE SEXPREG SYSTEM SERVICE. THE SERVICE IS INVOKED UNDER VARIOUS INPUT CONDITIONS WITH VARYING INPUT PARAMETERS. ONLY SUCCESSFUL STATUS CODES ARE EXPECTED IN THIS TEST MODULE. CORRECT OPERATION OF THE SERVICE FOR EACH OF ITS ISSUANCES IS VERIFIED BY CHECKING FOR AN SS\$ NORMAL STATUS CODE, EXPECTED RETURN ARGUMENTS AND EXPECTED FUNCTIONALITY PERFORMED.

ENVIRONMENT: USER MODE IMAGE; NEEDS CMKRNL PRIVILEGE, DYNAMICALLY ACQUIRES OTHER PRIVILEGES, AS NEEDED.

AUTHOR: THOMAS L. CAFARELLA, CREATION DATE: JUN, 1977

MODIFIED BY:

01 - VERSION

31

SATS SYSTEM SERVICE TESTS SEXPREG (SUCC 16-SEP-1984 01:00:48 VAX/VMS Macro V04-00 Page 2 DECLARATIONS 5-SEP-1984 04:32:58 [UETPSY.SRC]SATSSS70.MAR;1 (1)

0000 54 ...SBTTL DECLARATIONS
0000 55 :
0000 56 : INCLUDE FILES:
0000 57 :
0000 58 SPRVDEF PROCESS HEADER OFFSETS
0000 59 SPHDDEF PROCESS HEADER OFFSETS
0000 60 SJPIDEF SGETJPI ITEM-CODE SYMBOLS
0000 61 SPSLDEF ; PROCESSOR STATUS LONGWORD DEFINITIONS

SA

0000 54 .SBTTL DEC 0000 55 :INCLUDE FILES: 0000 57 :SPRVDEF 0000 59 SPHDDEF 0000 60 SJPIDEF 0000 61 SPSLDEF 0000 63 :MACROS: 0000 65 :EQUATED SYMBOLS: 0000 67 :OWN STORAGE: 0000 70 :

```
SATS SYSTEM SERVICE TESTS SEXPREG (SUCC 16-SEP-1984 01:00:48 VAX/VMS Macro V04-00 DECLARATIONS 5-SEP-1984 04:32:58 [UETPSY.SRC]SATSSS70.MAR;1
                                                                                                                                                         Page
         00000000

0000

0009

0019

0039

0051

0055

004

0055

004

0057

009

0059

006

006

0069

0069
                            72
73 TEST_MOD_NAME:: STRING C.<SATSSS70> : 1
74 TEST_MOD_NAME_D: STRING I.<SATSSS70> : 1
75 MSG1_INP_CTL: STRING I.< SSERG!4ZW: COM
                                                                                                 : TEST MODULE NAME : TEST MODULE NAME DESCRIPTOR
                                                                                                 CONDITIONS:>
                                                                                                    FAO CTL STRING FOR MSG1 IN SUCCOMMON.MAR
                                 MSG3_ERR_CTL:: STRING I, < *SSERG!4ZW:
                                                                                                 !AS>
                                                                                                    FAO CTL STRING FOR MSG3 IN SUCCOMMON.MAR PAGE SIZE IN BYTES
00000200
                                 PAGESIZE:
JPITEMS:
                                                                        512
                                                           .LONG
                                                                                                    SGETJPI ITEM LIST
0004
0404
00000009*
                                                           . WORD
                                                                                                     LEN OF RETURN BUFFER FOR 1ST ITEM
                                                           .WORD JPIS FREPOVA .ADDRESS INITIALADR
                                                                                                     REQUEST ITEM 1
                                                                                                    BUFFER FOR ITEM 1
DON'T NEED LENGTH RETURN
                                                           . LONG
0004
0405
00000000
                                                           . WORD
                                                                                                     LEN OF RETURN BUFFER FOR 2ND ITEM
                                                           .WORD JPIS FREP1VA
.ADDRESS INITIALADR+4
                                                                                                     REQUEST ITEM 2
                                                                                                    BUFFER FOR ITEM 2
DON'T NEED LENGTH RETURN
00000000
                                                           . LONG
                                                                        0
00000000
                                                            . LONG
                                                                                                    END OF SGETJPI ITEM LIST
```

SATS SYSTEM SERVICE TESTS SEXPREG (SUCC 16-SEP-1984 01:00:48 VAX/VMS Macro V04-00 DECLARATIONS SEXPREG (SUCC 16-SEP-1984 04:32:58 [UETPSY.SRC]SATSSS70.MAR;1

00000000 00000008 0000 00000009 0008 00000011 0009 00000019 0011 00000021 0019 91 92 PRIVMASK: 93 NZERR: 94 INITIALADR: 95 RETADR: 96 INADR_DVA: RWDATA,RD,WRT,NOEXE,LONG
.BLKQ 1
.BLKQ 1
.BLKQ 1
.BLKQ 1
.BLKQ 1 .PSECT ADDR OF PRIVILEGE MASK (IN PHD)
INDICATOR FOR NON-ZERO ERROR
HOLD AREA FOR FREE REGION BOUNDARIES
LONGWORD PAIR FOR SUBJECT EXPREG
LONGWORD PAIR FOR DELTVA

SA

```
SATS SYSTEM SERVICE TESTS SEXPREG (SUCC 16-SEP-1984 01:00:48 CONDITION TABLES SEXPREG (SUCC 16-SEP-1984 04:32:58
                                                                                                                         VAX/VMS Macro V04-00
[UETPSY.SRC]SATSSS70.MAR;1
                                                                                                                                                                                      (1)
                              98
99
100
101
102
103
104
107
108
109
110
                                                    .SBTTL CONDITION TABLES
                 ***** CONDITION TABLES FOR EXPREG SYSTEM SERVICE *****
                                                                  1,LONG,<REGION>,-
<PROGRAM>,-
<CONTROL>,-
                                                    COND
00000000
                                                                         .LONG
                                                                                                             : PROGRAM
: CONTROL
                                                                  2,LONG, <PAGCNT>,-
<SMALL COUNT>,-
<MEDIUM COUNT>,-
<LARGE COUNT>,-
                                                    COND
00000001
00000005
000003E8
                                                                         .LONG
                                                                         . LONG
                                                                                               1000
                                                                  3.LONG, <ACMODE>, -
<KERNEL>, -
                                                    COND
                              120112345678901331133
                                                                     <EXEC>,-
<SUPER>,-
                                                                      <USER>,-
00000000
00000001
00000002
00000003
                                                                                              PSL$C_KERNEL
PSL$C_EXEC
PSL$C_SUPER
PSL$C_USER
                                                                         . LONG
                                                                         . LONG
                                                                         . LONG
                                                                         .LONG
                                                    COND
                                                                  4. NULL
                                                    COND
                                                                  5.NULL
          00000000
                                                    .PSECT
                                                                 SATSSS70, RD, WRT, EXE
```

SA' Syi VF WOI WR

-

\$AI ROI RWI SA

> Phi Coi Pai Syl Pai Cri Asi

Syl Psi Cri As: Thi 42: Thi 56: 39

Ma

-\$: -\$: 70 80

MA

```
176
177
178
179
180
181
182
183
184
185
                                                              D4 04 04 0 DE O
                                                                       0004
0006
0008
000A
000D
0018
                                                                                                                                   MOD_MSG_PRINT ; PRINT TEST MODULE BEGIN MSG
TEST_MOD_SUCC_TMD_ADDR ; ASSUME END MSG WILL SHOW SUCCESS
#SUCCESS,#0,#3,MOD_MSG_CODE ; ADJUST STATUS CODE FOR SUCCESS
                                                                                                                  BSBW
00000000'EF
                                                                                                                  MOVAL
                   00
                                                                                                                  INSV
                                                                                                                                   TO.5% KRNL : KERNEL MODE TO ACCESS PHD GET PROCESS HEADER ADDRESS PHD GET PRIVMSK (R9) PRIVMSK : GET PRIV MASK ADDRESS FROM.5% : BACK TO USER MODE
                                                                                                                  MODE
                               00000000 9F
                                                              DO
                                                                                                                  MOVL
                    0000000'EF
                                                              DE
                                                                                                                  MOVAL
                                                                                                                  MODE
                                                                                                                  PRIV
                                                                                                                                                                                         : GET ALL PRIVILEGES
                                                                                                                                    ADD ALL
```

05

0110

VO

```
207
208
209
210
                                          .SBTTL CONDITION SUBROUTINES - SETUP AND CLEANUP
       010D
                           ; ++
; F(
       010D
                              FUNCTIONAL DESCRIPTION:
       010D
                              CONDX AND CONDX CLEANUP ARE SUBROUTINES WHICH ARE EXECUTED BEFORE AND AFTER THE VERIFY SOBROUTINE, RESPECTIVELY, WHENEVER A NEW CONDITION X VALUE IS SELECTED (SEE FUNCTIONAL DESCRIPTION OF SUCCOMMON ROUTINE IN SUCCOMMON.MAR). ANY SETUP FUNCTION PARTICULAR TO THE CONDITION X TABLE IS INCLUDED IN THE CONDX SUBROUTINE AND CLEANED UP, IF NECESSARY, IN THE CONDX CLEANUP SUBROUTINE. THIS INCLUDES, ESPECIALLY, CODE TO DETECT CONFLICTS AMONG CURRENT ENTRIES IN TWO OR MORE CONDITION TABLES. IF A CONFLICT IS DETECTED, A NON-ZERO VALUE IS STORED INTO CONFLICT, WHICH CAUSES THE CALLING ROUTINE (SUCCOMMON) TO SKIP THE CURRENT ENTRY IN THE CONDITION X TABLE.
       010D
                    212
213
214
215
216
217
       0100
       010D
       010D
       010D
       010D
       010D
       010D
       0100
                    010D
       010D
       010D
                               CALLING SEQUENCE:
       010D
       010D
                                          BSBW CONDX BSBW CONDX_CLEANUP
       010D
                                             WHERE X = 1.2.3.4.5
       010D
       010D
                               INPUT PARAMETERS:
       010D
       010D
                                          CONFLICT = 0
       010D
       010D
                               IMPLICIT INPUTS:
       010D
       010D
                                          R2.3.4.5.6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
       010D
                                             FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
       010D
       010D
                              OUTPUT PARAMETERS:
       010D
       010D
                                          CONFLICT SET TO NON-ZERO IF COND TABLE CONFLICT DETECTED.
       010D
       010D
010D
                               IMPLICIT OUTPUTS:
       010D
                                         R2.3.4.5.6 PRESERVED
       010D
       010D
                               COMPLETION CODES:
       010D
010D
010D
                                          NONE
       010D
010D
                              SIDE EFFECTS:
       010D
010D
                                          NONE
       010D
       010D
       010D
010D
                    255
256
257
258
259
260
261
262
263
       010D
                           COND1::
       010D
05
                                                                                                    : RETURN TO MAIN ROUTINE
                           COND1_CLEANUP::
       010E
05
       010E
                                          RSB
                                                                                                    ; RETURN TO MAIN ROUTINE
       010F
                           COND2::
05
       010F
                                                                                                    : RETURN TO MAIN ROUTINE
                           COND2_CLEANUP::
        0110
```

: RETURN TO MAIN ROUTINE

SATSSS70 V04-000 SATS SYSTEM SERVICE TESTS SEXPREG (SUCC 16-SEP-1984 01:00:48 VAX/VMS Macro V04-00 Page CONDITION SUBROUTINES - SETUP AND CLEANU 5-SEP-1984 04:32:58 [UETPSY.SRC]SATSSS70.MAR;1 (1)

	0111	264 COND3::	
05	0111	265 RSB	; RETURN TO MAIN ROUTIN
05	0112	265 266 COND3_CLEANUP:: 267 RSB 268 COND4::	; RETURN TO MAIN ROUTIN
05	0113	269 RSB 270 COND4_CLEANUP::	; RETURN TO MAIN ROUTIN
05	0114	271 RSB 272 COND5::	; RETURN TO MAIN ROUTIN
05	0115	RSB 274 COND5_CLEANUP::	; RETURN TO MAIN ROUTIN
05	0116	275 RSB	; RETURN TO MAIN ROUTIN

```
SA
VO
```

10 (1)

```
SATS SYSTEM SERVICE TESTS SEXPREG (SUCC 16-SEP-1984 01:00:48 VAX/VMS Macro V04-00 FORM_CONDS 5-SEP-1984 04:32:58 [UETPSY.SRC]SATSSS70.MAR;1
SATSSS70
V04-000
                                                                                              .SBTTL FORM_CONDS
                                                                                   FUNCTIONAL DESCRIPTION:
                                                                                     THE CURRENT ELEMENT IN EACH OF THE CONDITION TABLES.
                                                                                    CALLING SEQUENCE:
                                                                                              BSBW FORM_CONDS
                                                                                    INPUT PARAMETERS:
                                                                                              NONE
                                                                                    IMPLICIT INPUTS:
                                                                                             R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES

FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.

FOR X = 1,2,3,4,5:

CONDX T - TITLE TEXT FOR CONDX TABLE

CONDX TAB - ELEMENT TEXT FOR CONDX TABLE

CONDX C - CONTEXT OF THE CONDX TABLE

CONDX E - DATA ELEMENTS OF THE CONDX TABLE
                                                                                    OUTPUT PARAMETERS:
                                                                                              NONE
                                                                                    IMPLICIT OUTPUTS:
                                                                                              NONE
                                                                                    COMPLETION CODES:
                                                                                              NONE
                                                                                    SIDE EFFECTS:
                                                                                              NONE
```

```
FORM_CONDS::
                                                             MSG1_INP_CTL, FAO_LEN, FAO_DESC, TESTNUM FORMAT CONDITIONS HEADER MSG
                                                     SFAO_S
                              30
91
12
31
                                                             OUTPUT_MSG
#COND1_C,#NULL
                                                                                        ... AND PRINT IT
IS CONDITION 1 NULL ?
                                                     BSBW
                         04
                                                      CMPB
                                                                                        NO -- CONTINUE
                                                     BNEQU
                                                              FORM_CONDSX
                       00E 3
                                                     BRW
                                                                                        YES -- SUBROUTINE IS FINISHED
                                             105:
                                                     EF 00000021 EF 00000000 EF 04
                              DE
DO
90
 00000000 EF
00000000 'EF
```

SATSSS70 V04-000	SATS	SYSTEM CONDS	SERVICE TE	STS SEXP	REG (SUCC 16-SEP-1984 01:00:48 VAX/VMS Macro V04-00 Page 11 5-SEP-1984 04:32:58 [UETPSY.SRC]SATSSS70.MAR;1 (1)
14 04 03 00AE	30 91 12 31	016B 016E 0171 0173	334 335 336 337 338 20\$:	BSBW CMPB BNEQU BRW	#RITE MSG2 : FORMAT AND WRITE CONDITION 1 MSG #CONDZ_C,#NULL : IS CONDITION 2 NULL ? 20\$: NO CONTINUE FORM_CONDSX : YES SUBROUTINE IS FINISHED
00000000'EF 00000049'EF 00000000'EF 00000051'EF43 00000000'EF 04	DE 00 90	0176 0181 018D 0194	339 340 341 342	MOVAL MOVL MOVB MOV_VAL	COND2_T_MSG_A COND2_TABER3]_MSG_B #COND2_C_MSG_CTXT COND2_C_COND2_CCOND2_EER3]_MSG_DATA1; GIVE COND 2 DATA VALUE TO FAO WRITE_MSG2 #COND3_C_MNULL SAVE ADDRESS OF CONDITION 2 TITLE FOR FAO COND 2 C_COND 2 CURR TEXT ELT FOR FAO COND 2 C_COND 2 DATA VALUE TO FAO WRITE_MSG2 #COND 3 C_MNULL SOURCE SOURC
14 FESD ° 04 03 0079	30 91 12 31	01A6 01A8	341 342 343 344 346	BSBQ CMPB BNEQU BRW	WRITE_MSG2 : FORMAT AND WRITE CONDITION 2 MSG #COND3_C,#NULL : IS CONDITION 3 NULL ? 30\$: NO CONTINUE FORM_CONDSX : YES SUBROUTINE IS FINISHED
00000000'EF 0000008E'EF 00000000'EF 00000096'EF44 00000000'EF 04	DE 00 90	01AB 01AB 01B6 01C2 01C9	347 308: 348 349 350	MOVAL MOVE MOV_VAL	COND3_T,MSG_A COND3_TABER4],MSG_B SAVE ADDRESS OF CONDITION 3 TITLE FOR FAO COND3_C,MSG_CTXT SAVE CONDITION 3 CONTEXT FOR FAO COND3_C,COND3_EER4],MSG_DATA1; GIVE COND 3 DATA VALUE TO FAO WRITE_MSG2 #COND4_C,#NULL SOVE ADDRESS OF CONDITION 3 TITLE FOR FAO SAVE CONDITION 3 CONTEXT FOR FAO FORMAT AND WRITE CONDITION 3 MSG IS CONDITION 4 NULL?
00000000'EF 000000CD'EF 00000000'EF 000000CD'EF45 00000000'EF 14	30 91 13 DE DO 90	01D5 01D8 01DB 01DD 01E8 01F4	349 350 3551 3553 3555 3556 3557 3558 3560 3663 3663	BSBQ CMPB BEQLU MOVAL MOVB	COND4_T,MSG_A COND4_TABER53.MSG_B SAVE ADDRESS OF CONDITION 4 TITLE FOR FAO COND4_TABER53.MSG_B SAVE ADDR OF COND 4 CURR TEXT ELT FOR FAO SAVE CONDITION 4 CONTEXT FOR FAO
00000000°EF 000000CE°EF 00000000°EF 000000CE°EF46 00000000°EF 14	30 91 13 DE DO 90	01FB 01FE 0201 0203 020E 021A 0221 0221	359 360 361 362 363 364	CMPB BEQLU MOVAL MOVL MOVB	#CONDS C, #NULL : IS CONDITION S NULL ? FORM CONDS T, MSG A : SAVE ADDRESS OF CONDITION S TITLE FOR FAO CONDS TABLES I MSG B : SAVE ADDRESS OF CONDITION S TITLE FOR FAO CONDS TABLES I MSG B : SAVE ADDRESS OF COND S CURP TEXT FOR FAO COND S COND S COND S CURP TEXT FOR FAO COND S
fDDC'	30 05	0221 0221 0224 0224	366	MOV VAL BSBQ ONDSX: RSB	#CONDS C.MSG CTXT : SAVE CONDITION 5 CONTEXT FOR FAO CONDS C.CONDS EER6], MSG DATA1 : GIVE COND 5 DATA VALUE TO FAO WRITE_MSG2 : FORMAT AND WRITE CONDITION 5 MSG : RETURN TO CALLER

SA

.SBTTL VERIFY

FUNCTIONAL DESCRIPTION:

VERIFY IS CALLED ONCE FOR EACH COMBINATION OF CONDITION TABLE VALUES (AS DETERMINED BY THE INDEX REGISTERS R2,3,4,5,6 FOR COND TABLES 1,2,3,4,5, RESPECTIVELY). VERIFY ESTABLISHES THE CONDITIONS SPECIFIED BY THE COND TABLES AND ISSUES THE SUBJECT SYSTEM SERVICE (SEXPREG). THEN, THE SUCCESSFUL OPERATION OF THE SERVICE IS VERIFIED BY EXAMINING THE STATUS CODE RETURNED. THE VALUES FOR RETURN ARGUMENTS AND THE FUNCTIONALITY PERFORMED. THE EXAMINATIONS TAKE THE FORM OF COMPARISONS AGAINST EXPECTED VALUES. ANY FAILING COMPARISON CAUSES AN ERR EXIT MACRO TO BE EXECUTED (EITHER DIRECTLY, OR INDIRECTLY, THROUGH THE SS CHECK MACRO); ERR EXIT SETS EFLAG TO NON-ZERO, PRINTS ERROR MESSAGES AND CAUSES AN IMMEDIATE RSB TO CALLER. WHEN ERR EXIT IS EXECUTED, FURTHER CALLS TO VERIFY ARE SUPPRESSED, AND, AFTER EXECUTING CLEANUP SUBROUTINES, THE IMAGE EXITS.

CALLING SEQUENCE:

BSBW VERIFY

INPUT PARAMETERS:

NONE

IMPLICIT INPUTS:

R2,3,4,5.6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES FOR X = 1,2,3,4.5; RESPECTIVELY.

FOR X = 1,2,3,4.5:

CONDX E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX

TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE

ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM

FOR CONDX_E.

OUTPUT PARAMETERS:

NONE

IMPLICIT OUTPUTS:

VERIFY HAS NO OUTPUT. SINCE ITS PURPOSE IS TO TEST FOR ERRORS, IT MERELY RETURNS TO CALLER NORMALLY AFTER THE TESTS, PROVIDING ALL WERE SUCCESSFUL; IF AN ERROR IS DISCOVERED, RETURN IS VIA AN ERR_EXIT OR SS_CHECK MACRO, BOTH OF WHICH DOCUMENT DETECTED ERRORS.

COMPLETION CODES:

EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.

SIDE EFFECTS:

SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT (VIA RSB) IF ERROR ENCOUNTERED.

```
SATS SYSTEM SERVICE TESTS SEXPREG (SUCC 16-SEP-1984 01:00:48 VERIFY 5-SEP-1984 04:32:58
      SATSSS70
V04-000
                                                                 VERIFY::
                             00000000°EF
                                                                           TSTB
                                                                                     CFLAG
58
                                                                                                                  : SHOULD CONDITIONS BE PRINTED ? : NO -- CONTINUE
                                                                           BEQL
                                               30
                                                                                     FORM_CONDS
                                                                                                                     YES -- FMT & PRINT ALL CONDS FOR THIS T.C.
                                                                                     PAGESIZE,R10
#-1,R8
REGION[R2]
                                                                                                                    GET PAGE SIZE INTO R10 FOR LATER USE
... AND A -1 INTO R8
IS IT PROGRAM REGION ?
YES -- LEAVE REGS ALONE
GET NEGATIVE PAGE SIZE
... AND MAKE R8 = +1
                             00000051'EF
                                                                           MOVL
                                                                           CVTBL
                           00000041 EF42
                                                                           TSTL
                                                                           BEQL
                                  5A
58
                                                                                     R10, R10
                                                                           MNEGL
                                                                           MNEGL
                                                                                     R8.R8
                                                                                     TO, 20$, KRNL
                                                                           MODE
                                                                                                                  : TO KERNEL FOR EXPREG
                                                                    ***** SYSTEM SERVICE CALL WHICH IS THE SUBJECT OF THIS TEST CASE *****
                                                                           $EXPREG_S PAGENTER3], RETADR, ACMODEER4], REGIONER2]
MODE FROM, 20$; BACK TO USER
                                              D1
12
31
                       00000000'8F
                                                                           CMPL
                                                                                                                     CODE RECEIVED = CODE EXPECTED ?
                                                                                     RC, #SSS_NORMAL
                                                    0297
0299
                                                                                                                     NO -- GO PROCESS ERROR
YES -- MORE VERIFYING
                                                                           BNEQU
                                      0061
                                                                           BRW
                                                                 305:
                                                    0290
                                                                                     #SS$ NORMAL, EXPV
RO, RECV
                             00000000°8F
            00000000 EF
                                              DO
                                                                           MOVL
                                                                                                                     LOAD UP EXPECTED AND
                                                                           MOVL RO.RECV : ... RECEIVED VALUES, THEN EXIT ERR_EXIT LONG, < INCORRECT STATUS CODE RETURNED FROM EXPRES>
                       0000000'EF
                                              DO
                                                                 55$:
                       00000009'EF42
00000011'EF 59
                                                                           MOVL
                                                                                     INITIALADR[R2],R9
                                                                                                                    GET START OF FREE AREA
DID EXPREG RETURN EXPECTED START ADDR ?
                                              DO
                                              D1
13
                                                    0305
                                                                           CMPL
                                                                                     R9, RETADR
                                                   030C
                                                                           BEQLU
                                                                                     60$
                                                                                                                    YES -- GO ON
                       00000000°EF
                                                                                                                     NO -- LOAD UP EXPECTED AND
                                              DO
                                                   030E
                                                            460
                                                                           MOVL
                                                                                     R9.EXPV
                                                            461
462
463 608:
            00000000'EF 00000011'EF
                                                                                     RETADR, RECV
                                                                                                                         RECEIVED VALUES, THEN EXIT
                                                                           ERR_EXIT LONG, < INCORRECT STARTING PAGE ADDRESS>
                                                    0320
                                                                                                                  : NOW CHECK ENDING ADDRESS
                                                                                                                                          ; NOW CHECK ENDING ADDRESS
NDING ADDRESS
                                          NOW CHECK ENDING ADDRESS
            : NOW CHECK ENDING ADDRESS
                                                              : NOW CHECK ENDING ADDRESS
                                                                                              NOW CHECK ENDING ADDRESS
                                                                                                                                 ; NOW CHECK ENDING ADDRESS
                                                                                                                                                             ; NOW CHECK ENDING
: NOW CHECK ENDING ADDRESS
                           ; NOW CHECK ENDING ADDRESS
                                                  ; NOW CHECK ENDING ADDRESS
```

U564 483 7.78

; NOW CHECK ENDING ADDRESS

NUMBERECK !

SATSSS70 V04-000				SATS	SYSTEM	SERV	JCE TEST	S SEXP	M 12 REG (SUCC 16-SEP-1984 5-SEP-1984	81:0	0:48 VAX/VMS Macro VO4-00 Page 14 2:58 [UETPSY.SRC]SATSSS70.MAR;1 (1)
	69	00000000	69 09 'EF 1A	95 12 90 11	0434 0434 0436 0438 043F	485 486 487 488	75\$:	TSTB BNEQ MOVB BRB	(R9) 80\$ ONES,(R9) 90\$	0 0 0	FIRST BYTE OF PAGE = ZERO, AS PROMISED ? NO GO INDICATE NON-ZERO ERROR DO A STORE NO ACCVIO EXPECTED GO LOOK AT NEXT PAGE
80000000	EF 0000	00000000 00000000 0000 'EF	EF 69 0A	90 94 90 11	0441 0441 0440 0452 0459	490 491 492 493	90\$:	MOVB CLRB MOVB BRB	ONES, NZERR EXPV (R9), RECV 100\$		INDICATE NON-ZERO ERROR FOUND LOAD UP EXPECTED AND RECEIVED VALUES, THEN EXIT GO PROCESS ERROR
FFCF 59	5A 0	00000015 000000BD°E		F1	045B 0465 0465 046D 046F 0470	495 496 497 498 499	100\$:	ACBL CMPL BEQLU MODE	RETADR+4,R10,R9,75\$ ACMODE[R4],MPSL\$C_US 110\$ FROM,63\$	_	INCR (OR DECR) TO NEXT PAGE & LOOP USER MODE ? YES DON'T CHANGE MODE CHANGE MODE BACK TO USER
		00000008	'EF 40	95 13	0470 0470 0476 0478 04C5 04C5	500 501 502 503	1108: VERIFYX:	TSTB BEQL ERR_EXI'	NZERR VERIFYX	EXPÂ	WAS A NON-ZERO ERROR ENCOUNTERED ? NO ALL FINISHED NSION AREA IS NON-ZERO> RETURN TO CALLER

VO

```
507 .SBTTL VFY_CLEANUP
508 :++
509 : FUNCTIONAL DESCRIPTION:
```

VFY CLEANUP EXECUTES SYSTEM SERVICES TO UNDO THE EFFECT OF THOSE ISSUED IN THE VERIFY SUBROUTINE. VFY CLEANUP MUST ASSUME THAT VERIFY MAY NOT HAVE EXECUTED IN ITS ENTIRETY (IF AN ERROR IS FOUND). ALSO, VFY CLEANUP MAY ISSUE SS CHECK OR ERR FXIT ONLY AFTER PERFORMING ALL OF ITS CLEANUP OPERATIONS; THIS IS REQUIRED IN THE EVENT THAT VFY CLEANUP IS CALLED DURING ERROR PROCESSING, WHEN PERFORMING THE REQUIRED CLEANUP IS MORE IMPORTANT THAN POSSIBLY DISCOVERING A SECOND ERROR.

CALLING SEQUENCE:

BSBW VFY_CLEANUP

INPUT PARAMETERS:

NONE

IMPLICIT INPUTS:

R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES

FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.

FOR X = 1,2,3,4,5:

CONDX E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX

TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE

ARGUMENT. THE ARGUMENT NAME MAY BE USED AS A SYNONYM

FOR CONDX_E.

OUTPUT PARAMETERS:

NONE

IMPLICIT OUTPUTS:

NONE

COMPLETION CODES:

EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.

ACMODE=ACMODE[R4]

SIDE EFFECTS:

SS CHECK AND ERR EXIT MACROS CAUSE PREMATURE EXIT (VIA RSB) IF ERROR ENCOUNTERED.

00000019'EF 00000011'EF 7D

VFY_CLEANUP::

MOVQ RETADR, INADR_DVA

MODE TO, 10\$, KRNL

\$DELTVA_S INADR=INADR_DVA,

PAGE RANGE TO DELETE

: GET RID OF ACQUIRED SPACE

SATS SYSTEM SERVICE TESTS SEXPREG (SUCC 16-SEP-1984 01:00:48 VAX/VMS Macro V04-00 Page 16 5-SEP-1984 04:32:58 [UETPSY.SRC]SATSSS70.MAR;1

MODE FROM, 10\$
SS_CHECK NORMAL
RSB
.END

: BACK TO USER MODE : CHECK FOR NORMAL RETURN FROM DELTVA : RETURN TO CALLER

SA

SATSSS70 Symbol table	5-SEP-1984 04:32:58 [UETPSY.SRC]SATSSS70.MAR:1	Page	17
\$\$\$\$CHARS \$\$\$CHARS1 \$\$\$CHARS2 \$\$\$CHARS3 \$\$\$CHARS5 \$\$\$CHARS5 \$\$\$CND A \$\$\$STRINGS2 \$\$\$TINGS2 \$\$T1 \$\$T2 ACMODE BYTE CHMRTN CHM CONT COND1 C COND1 C COND1 C COND1 T COND1 T COND1 T COND1 T COND2 C COND2 C COND2 C COND2 C COND2 C COND2 T COND2 T COND3 T COND3 T COND3 T COND3 T COND3 T COND3 T COND3 T COND3 T COND3 T COND4 T COND4 T COND4 T COND4 T COND5	### CONDOCATE REPORT CONDS ### CONDS ### CONDOCATE REPORT REPO		

```
SATS SYSTEM SERVICE TESTS SEXPREG (SUCC 16-SEP-1984 01:00:48 5-SEP-1984 04:32:58
 SATSSS70
                                                                                                                                                                                                        18
 Symbol table
WORD CLEANUP
                                                = 0000004C6 RG
= 00000002 G
                                                                           04
WRITE_MSG2
                                                                           04
                                                    ******
                                                                           +----
                                                                              Psect synopsis
PSECT name
                                                  Allocation
                                                                                 PSECT No.
                                                                                                  Attributes
     ABS
                                                  00000000
                                                                                                  NOPIC
                                                                                                                                          LCL NOSHR NOEXE NORD
                                                                                                                                                                            NOWRT NOVEC BYTE
                                                                                                  NOPIC
NOPIC
NOPIC
 SABS$
                                                  00000000
                                                                                                                        CON
                                                                                                              USR
                                                                                                                                 ABS
                                                                                                                                          LCL
                                                                                                                                                NOSHR
                                                                                                                                                            EXE
                                                                                                                                                                                     NOVEC BYTE
 RODATA
                                                                                                              USR
                                                                                                                                 REL
                                                                                                                                                NOSHR NOEXE
                                                                                                                                                                            NOWRT NOVEC LONG
                                                  000000CF
0000053A
RWDATA
                                                                                                              USR
                                                                                                                        CON
                                                                                                                                 REL
                                                                                                                                          LCL NOSHR NOEXE
                                                                                                                                                                      RD
                                                                                                                                                                               WRT NOVEC LONG
SATSSS70
                                                                                                  NOPIC
                                                                                                                                           LCL NOSHR
                                                                                                              USR
                                                                                                                                                            EXE
                                                                                                                                                                               WRT NOVEC BYTE
                                                                         Performance indicators
Phase
                                       Page faults
                                                              CPU Time
                                                                                     Elapsed Time
 ----
                                                                                     00:00:00.34

00:00:02.78

00:00:19.00

00:00:01.52

00:00:04.56

00:00:00.20

00:00:00.26

00:00:00.26
                                                              00:00:00.09
Initialization
                                                              00:00:00.61
 Command processing
                                                              00:00:08.14
00:00:00.68
00:00:02.01
00:00:00.10
Pass 1
                                                  121
Symbol table sort
Pass 2
Symbol table output
Psect synopsis output
                                                              00:00:00.02
                                                              00:00:00.00
Cross-reference output
Assembler run totals
                                                              00:00:11.65
The working set limit was 1500 pages.
42361 bytes (83 pages) of virtual memory were used to buffer the intermediate code.
There were 30 pages of symbol table space allocated to hold 453 non-local and 44 local symbols.
567 source lines were read in Pass 1, producing 24 object records in Pass 2.
39 pages of virtual memory were used to define 30 macros.
```

! Macro library statistics !

Macro Library name Macros defined

\$255\$DUA28:[SHRLIB]UETP.MLB;1

\$255\$DUA28:[SYS.OBJ]LIB.MLB;1

\$255\$DUA28:[SYSLIB]STARLET.MLB;2

TOTALS (all Libraries)

Macros defined

9

17

27

801 GETS were required to define 27 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SATSSS70/OBJ=OBJ\$:SATSSS70 MSRC\$:SATSSS70/UPDATE=(ENH\$:SATSSS70)+EXECML\$/LIB+SHRLIB\$:UETP/LIB

0424 AH-BT13A-SE

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